

1 **ABSTRACT**

2 A network computer maintains a directory of objects having multi-valued
3 attributes. The attributes are comprised of individual linked values having
4 conflict-resolution data that indicates a change to an object at an attribute-value
5 level. A second network computer stores a replica of the directory in which a
6 replica of the objects is maintained. The computers replicate the objects in the
7 directories and update the individual linked values of the attributes. Replication
8 conflicts are identified and resolved with the conflict-resolution data at the
9 attribute-value level of the objects.

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25